

## Claims

1. An apparatus for detecting chemotaxis of cells with a structure wherein two wells are connected to each other via a channel having resistance to the passage of cells and each well has an opening for injecting cells or a specimen, characterized by having (1) a means of transporting a liquid and a means of stopping the transportation after the injection or the aspiration discharge of the liquid and (2) a means of sealing the opening(s) in one or both of the cell-injection side and the specimen-injection side.

2. The apparatus for detecting chemotaxis of cells as claimed in claim 1 characterized in that said means of transporting a liquid and stopping the transportation is a member selected from a pulse pump and a syringe.

3. The apparatus for detecting chemotaxis of cells as claimed in claim 1 characterized in that said means of sealing the opening is a member selected from among a flexible stopper, a slide-type switching member, a tap, a valve and a combination thereof.